**FIG. 1**

## DATA FLOW

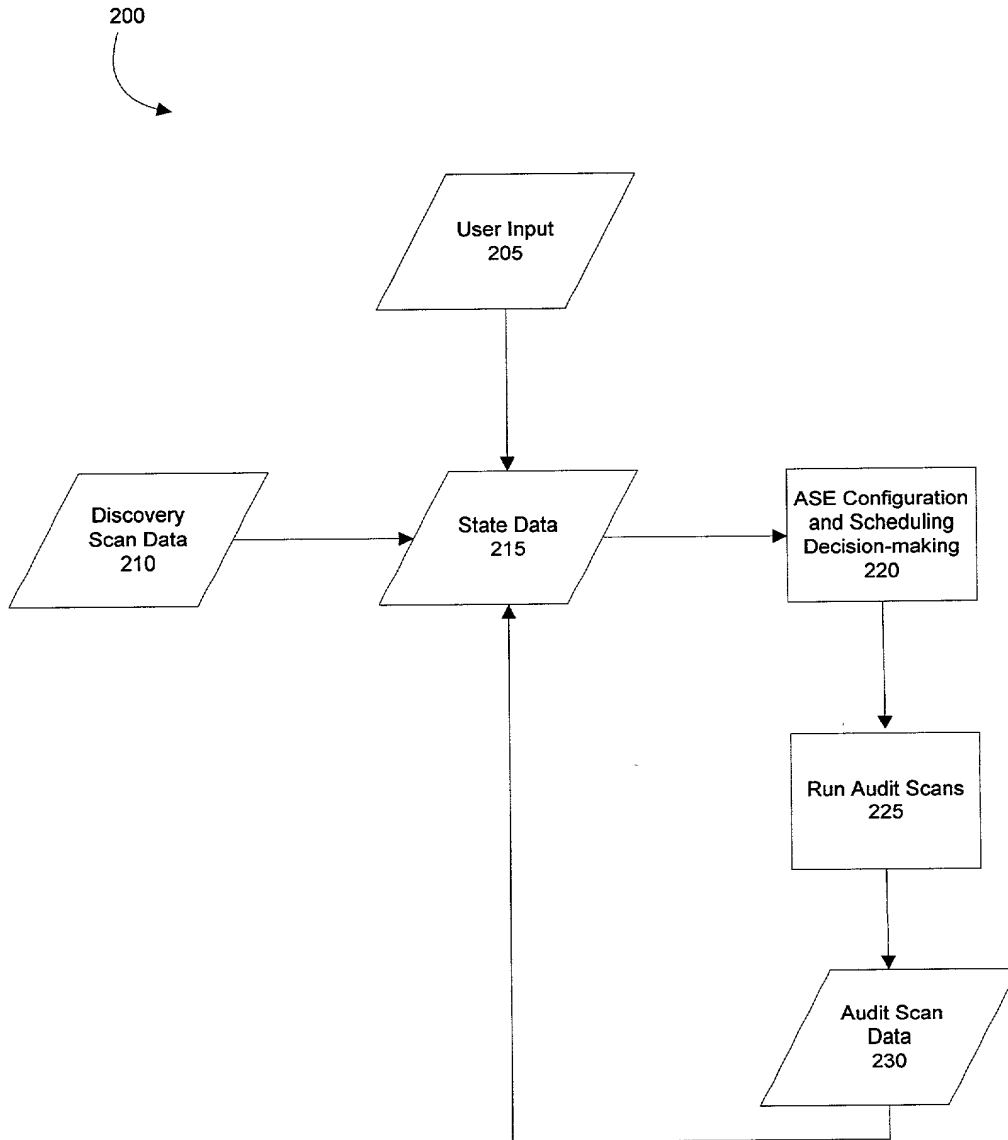


FIG. 2

PROCESS  
OVERVIEW

3/22

300

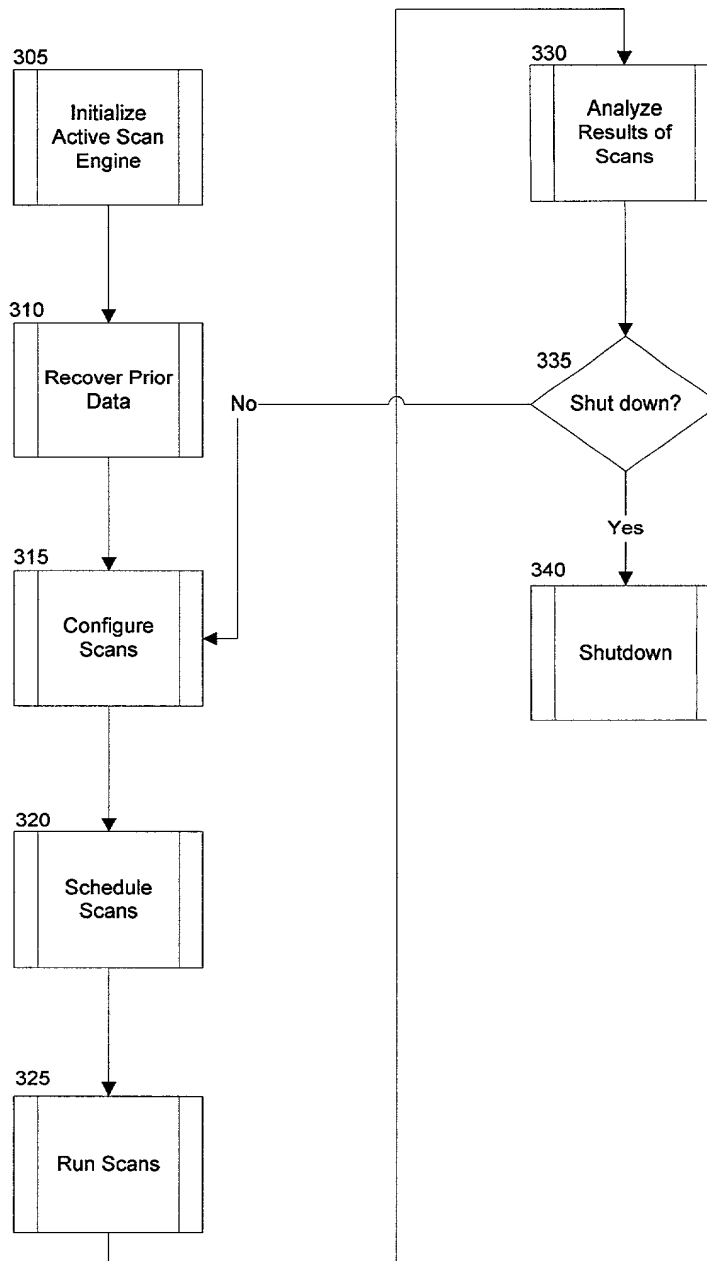


FIG. 3

# INITIALIZE ACTIVE SCAN ENGINE

305



405

Initialize Blackout  
Manager

410

Initialize Scanners

415

Initialize Decision  
Maker

420

Initialize Job  
Manager

425

Initialize Analyzer

**FIG. 4**

# RECOVER PRIOR DATA

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310

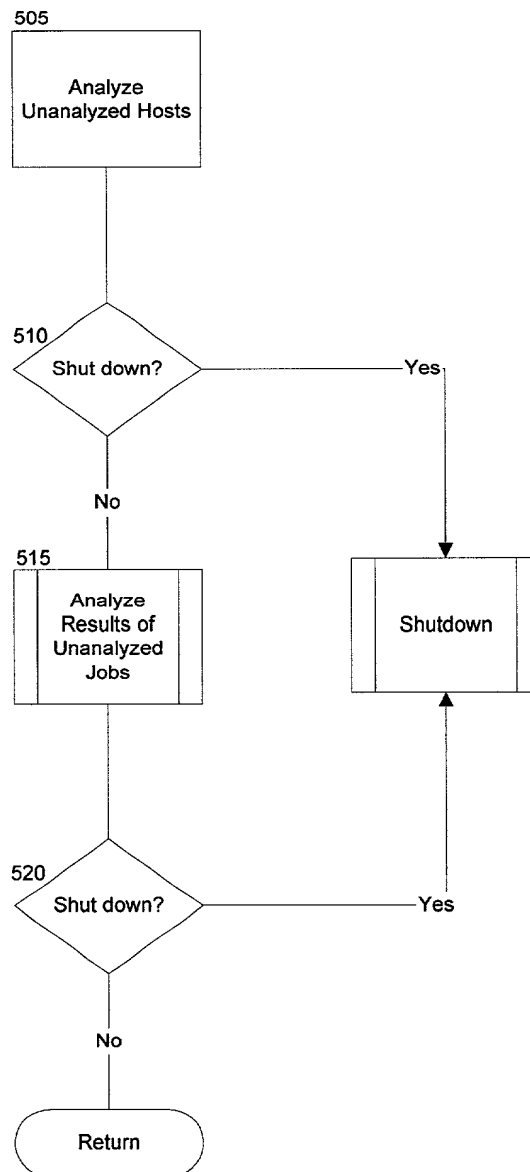


FIG. 5

## CONFIGURE SCANS

315

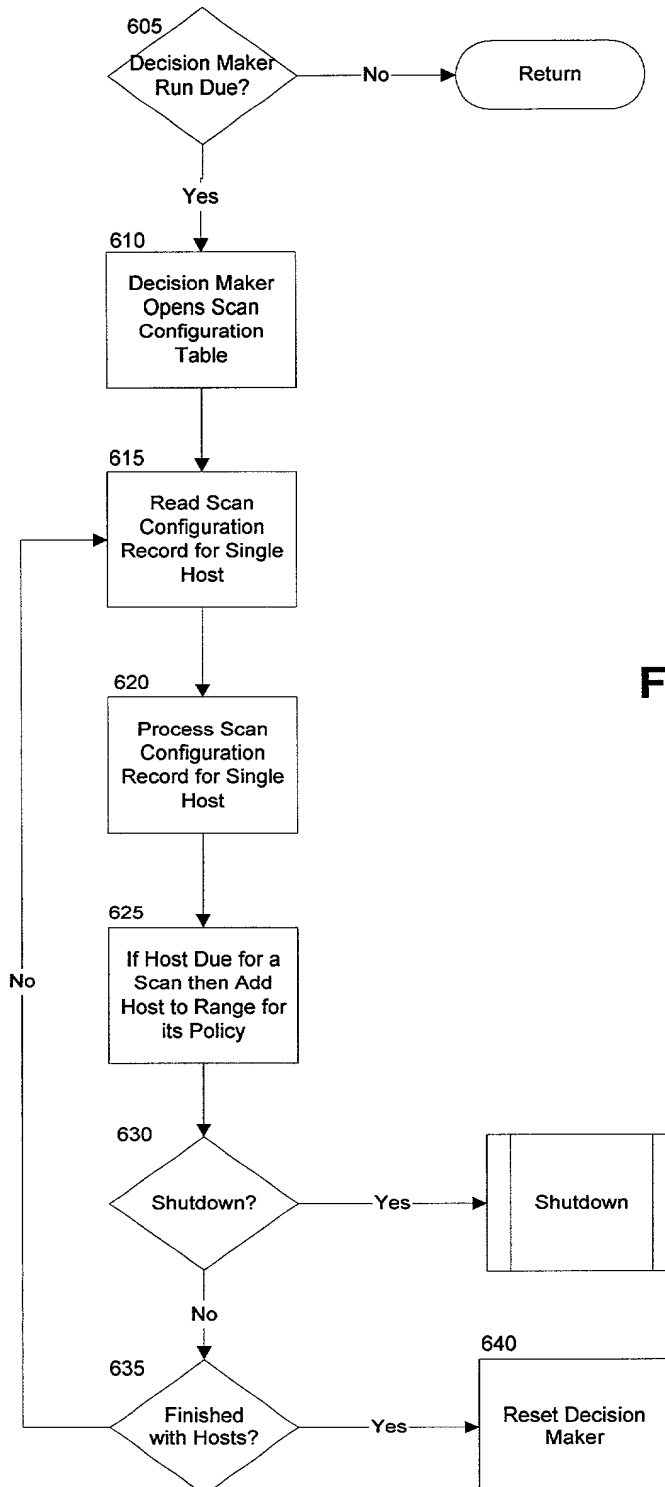


FIG. 6A

# CONFIGURE SCANS

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Role	Asset Value	Scan Policy
UnixDesktop	3	L3UnixDesktop
UnixServer	4	L4UnixServer
UnixServer	5	L5UnixServer
UnixServer	6	L6UnixServer
NTDesktop	5	L5NTDesktop
NTServer	5	L5NTServer
SQLServer	3	L3SQLServer
SystemScanner	3	L3SystemScanner

**Mapping from Host Role + Asset Value to a Scan Policy**

**FIG. 6B**

Asset Value	Frequency
3	every 5 days
4	every 4 days
5	every 3 days
6	every 2 days
7	every day

**Mapping from Asset Value to Scan Frequency**

**FIG. 6C**

Entity	Host	Policy	Scan Frequency	First Job ID	Last Job ID
Internet Scanner	127.0.0.1	L3UnixWebServer	Every 5 days	1	3
Internet Scanner	135.1.2.3	L5NTWebServer	Every 2 days	2	3
Database Scanner	135.1.2.3	L3SQLServer	Every 5 days	3	4
System Scanner	127.0.0.1	L3Unix	Every 5 days	3	3

**Scan Configuration Table**

**FIG. 6D**

## SCHEDULE SCANS

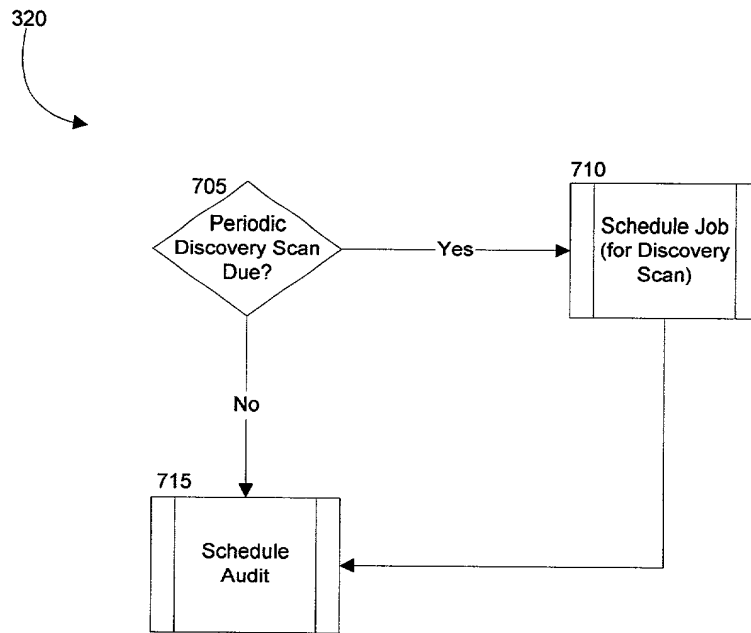


FIG. 7



# SCHEDULE JOB

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710, 910

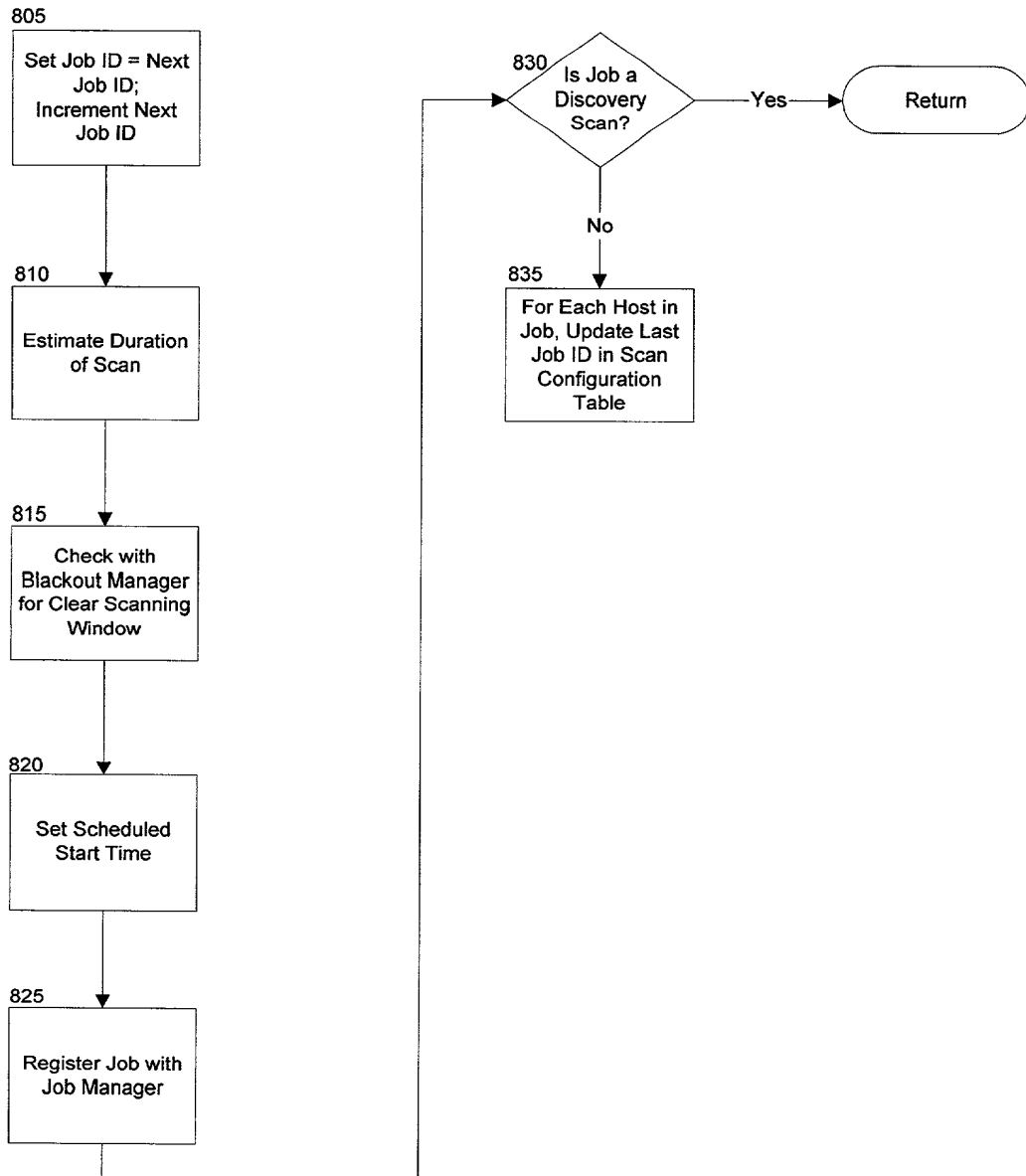


FIG. 8

SCHEDULE AUDIT

715

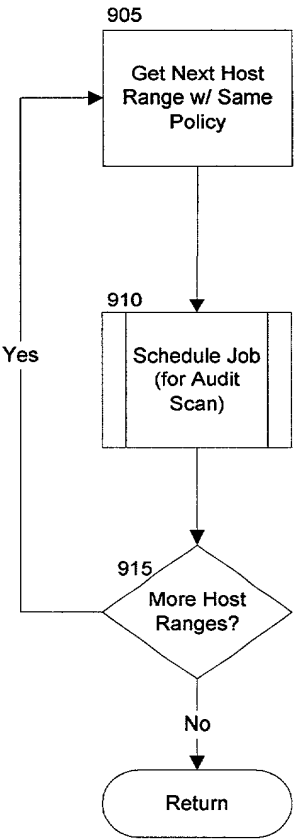


FIG. 9

## RUN SCANS

325

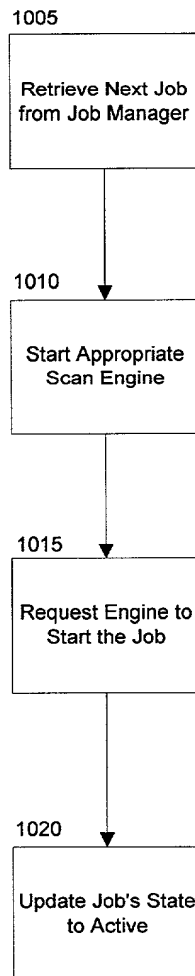
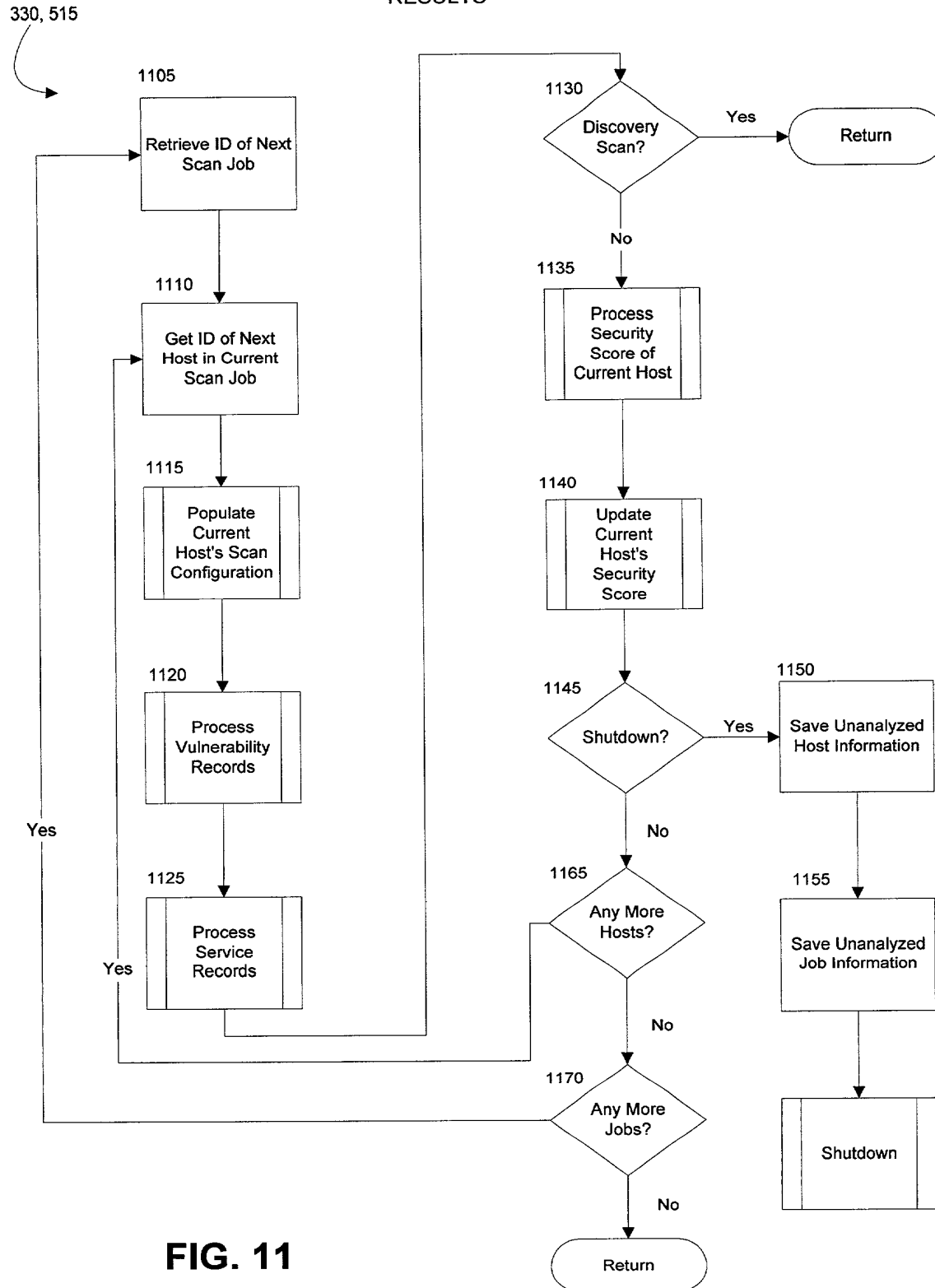


FIG. 10

ANALYZE SCAN  
RESULTS

1115

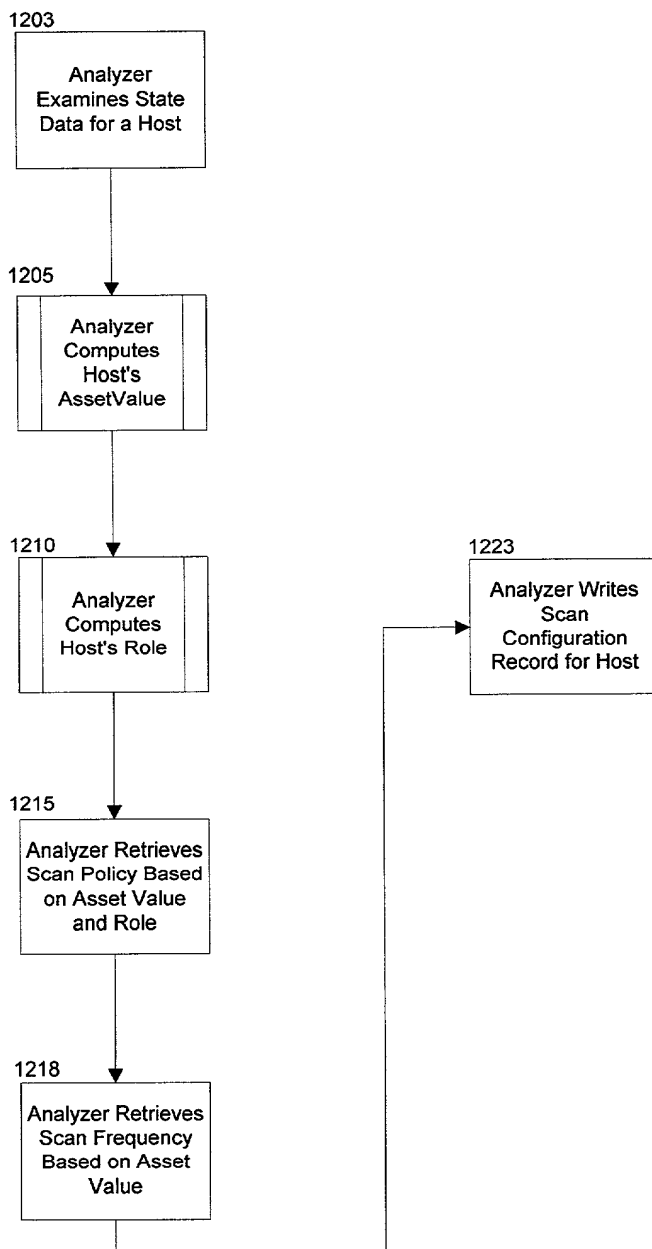
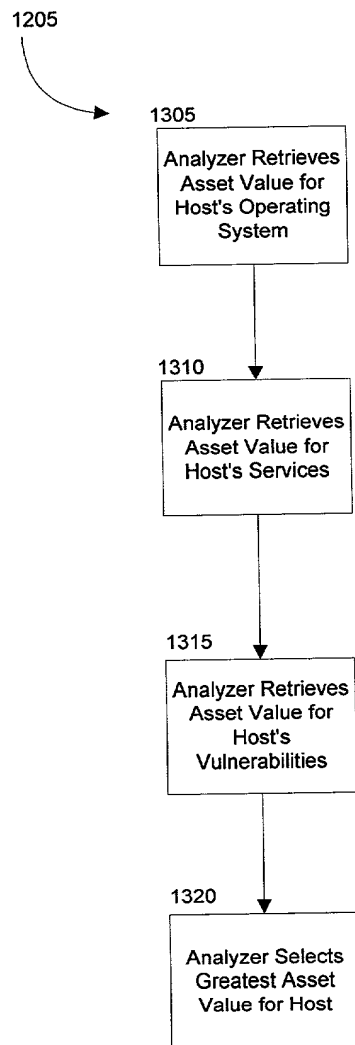
POPULATE A HOST'S  
SCAN CONFIGURATION

FIG. 12

# COMPUTE HOST'S ASSET VALUE

**FIG. 13**

## COMPUTE HOST'S ROLE

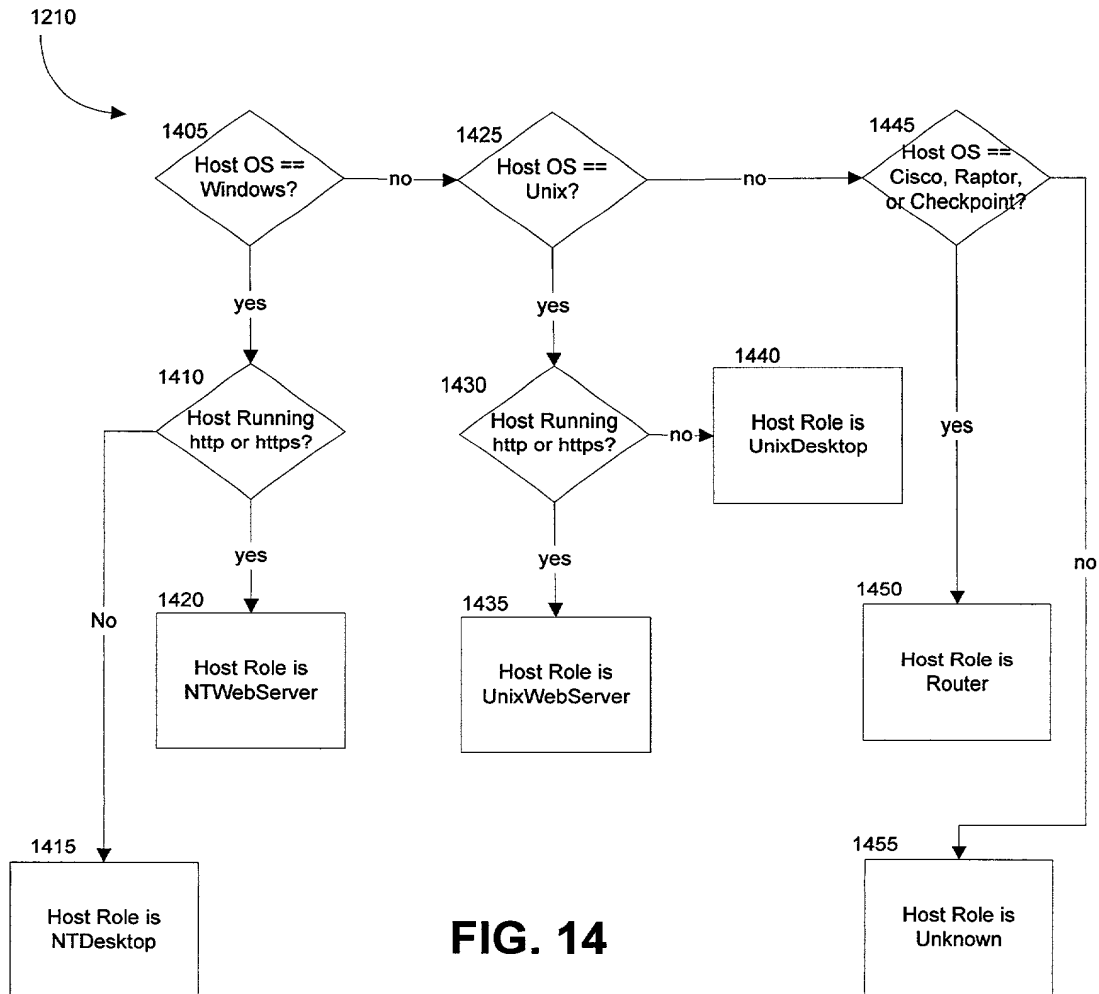


FIG. 14

PROCESS  
VULNERABILITY  
RECORDS FOR  
HOST

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1120

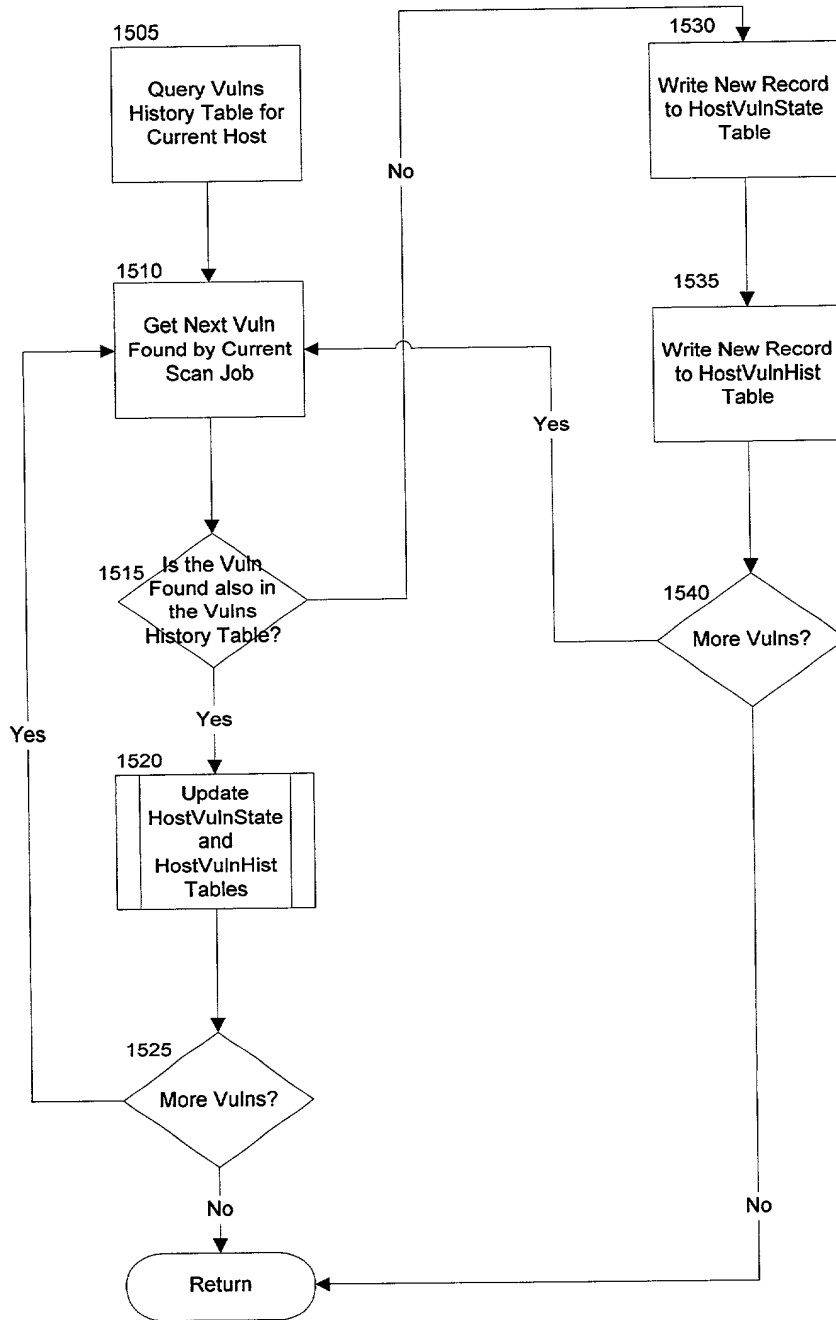


FIG. 15



UPDATE HOSTVULNSTATE  
AND HOSTVULNHIST  
TABLES

1520

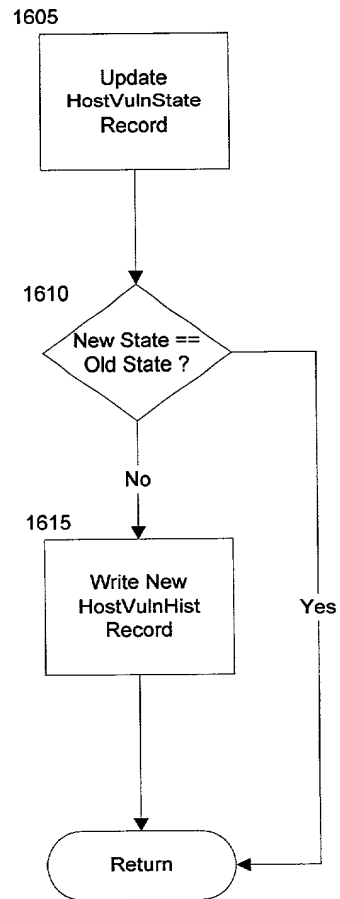


FIG. 16

PROCESS SERVICE  
RECORDS FOR  
HOST

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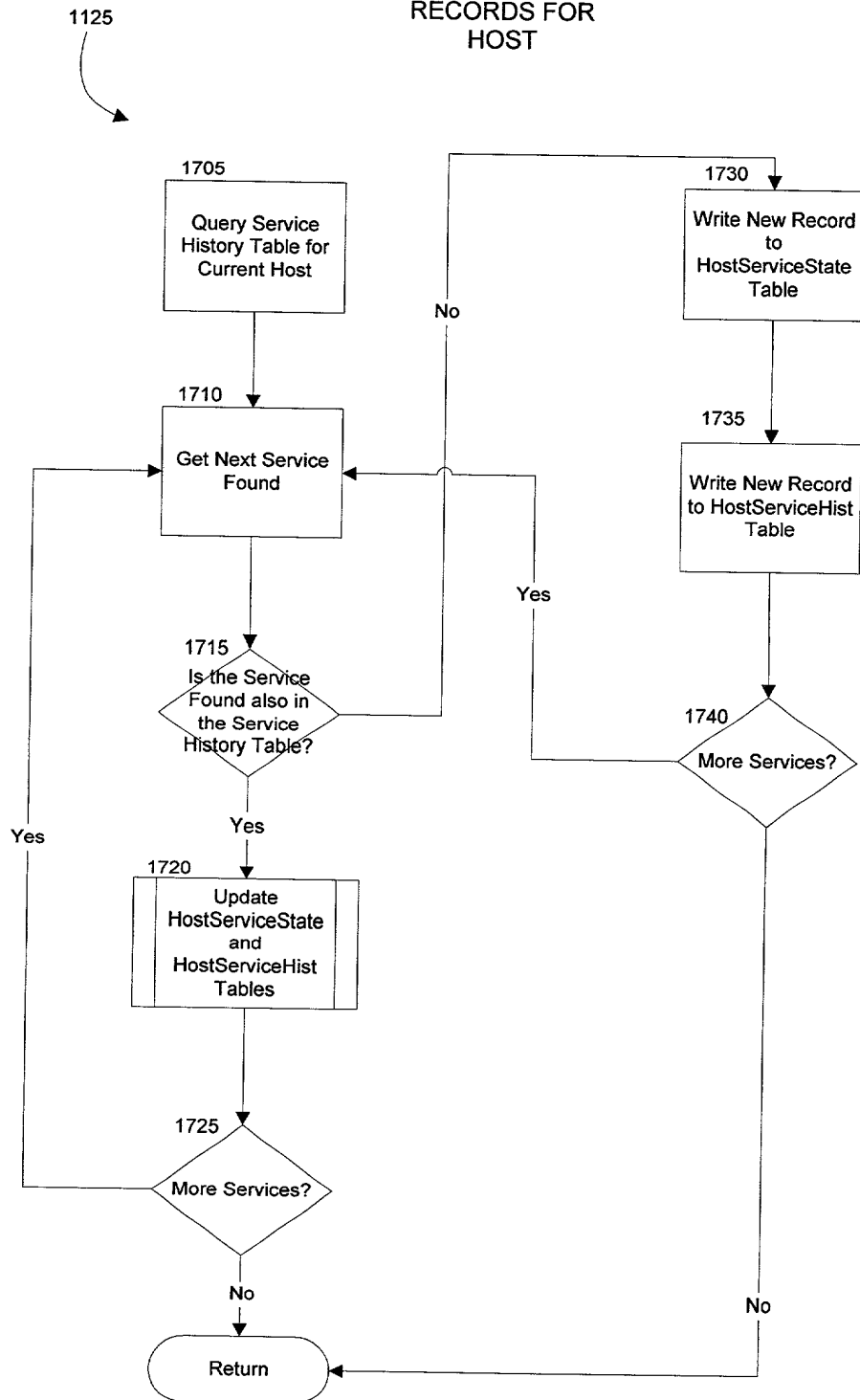


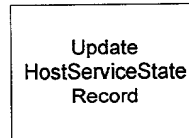
FIG. 17

# UPDATE HOSTSERVICESTATE AND HOSTSERVICEHIST TABLES

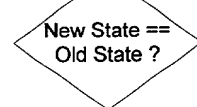
1720



1705

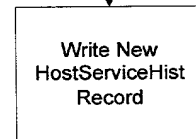


1710



No

1715



Yes

Return

**FIG. 18**

PROCESS SECURITY  
SCORE OF A HOST

1135

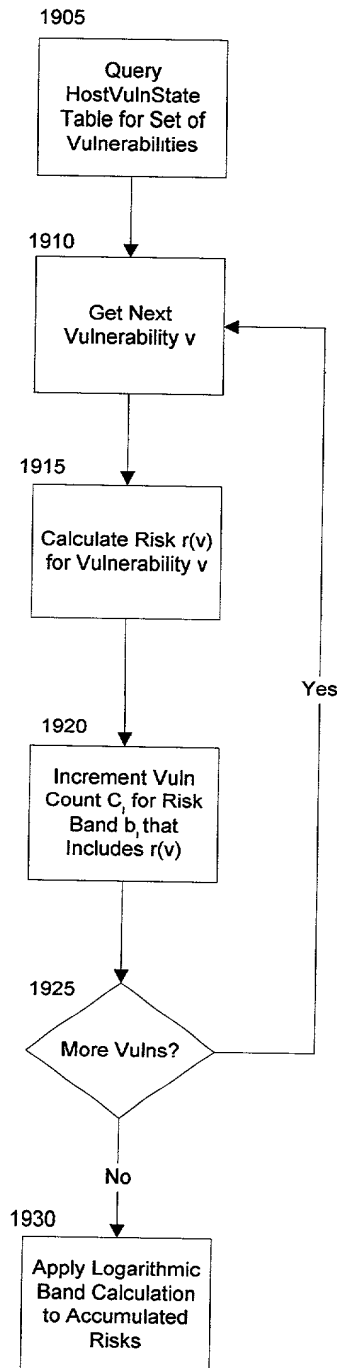


FIG. 19

UPDATE HOST'S SECURITY  
SCORE

1140

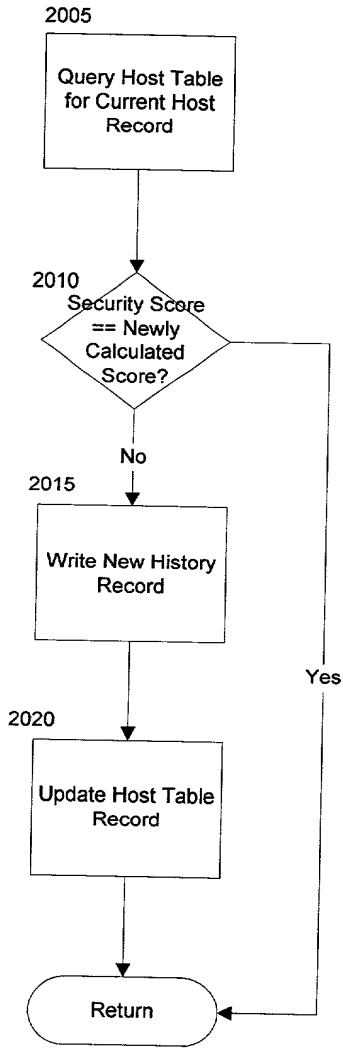


FIG. 20

## SHUTDOWN

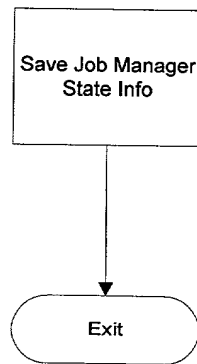


FIG. 21